The Final Office Action dated June 23, 2008 has been carefully considered. In the Final

Office Action dated June 23, 2008, the Examiner:

rejected claims 16, 17, 21, 24-26 and 32 under 35 U.S.C. 102(b) as being anticipated

by U.S. Patent No. 5,776,198 to Rabbe et al. ("Rabbe");

• rejected claims 18-20 and 22 under 35 U.S.C. 103(a) as being unpatentable over

Rabbe in view of U.S. Patent No. 6,899,734 to Castro et al. ("Castro");

• rejected claim 21 under 35 U.S.C. 103(a) as being unpatentable over Rabbe in view

of Castro and in further view of U.S. Patent No. 6,106,539 to Fortier ("Fortier");

rejected claims 27-29 and 31 under 35 U.S.C. 103(a) as being unpatentable over

Rabbe in view of Castro; and

• rejected claim 30 under 35 U.S.C. 103(a) as being unpatentable over Rabbe in view

of Castro and in further view of Fortier.

Reconsideration and allowance of the pending claims in view of the following remarks

is respectfully requested.

INDEPENDENT CLAIM 16

Independent claim 16 and dependent claims 17 and 24, which are dependent on claim 16, have

been rejected as being anticipated by Rabbe. Dependent claims 18-20 and 22 have been rejected as

being unpatentable over Rabbe in view of Castro. Dependent claim 21 has been rejected as being

unpatentable over Rabbe in view of Castro and in further view Fortier. Applicants respectfully traverse

these rejections with respect to the above-listed claims.

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Application No. 10/552,675

Request for Reconsideration filed August 15, 2008

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Referring to Figs. 3 and 7-9, Rabbe discloses an adjustable vertebral body replacement assembly

20 including a cylindrical body 21 with external threads 32, threaded endplates 22 and end caps 23. Set

screws 24 are provided for selectively fixing each endplate 22 to the threaded cylindrical body 21. The

external threads 32 are configured to engage the threaded endplates 22 and each endplate 22 includes a

bore 40 with internal threads 41 that mate with the external threads 32. The external threads 32 are cut

in opposite directions so that the endplates 23 can be drawn together or apart by rotating only the

threaded cylindrical body 21. Thus, as the threaded cylindrical body 21 is rotated in one direction, the

threads 32 at each of the ends engage the internal threads 41 formed on the endplates 22 to move the

endplates 22 closer or farther apart. The endplates 22 include spikes 91, 120 to penetrate the end plate

of the adjacent vertebra to help maintain the position of the implant in situ and the spikes 91, 120 are

constantly positioned on an opposite side of the endplates 22 from the cylindrical body 21. The end

caps 23 span the bores 40 in the endplates 22 such that terminal ends of the cylindrical body 21 do not

extend beyond an outer face of the endplates 22 or end caps 23 and do not contact end plates of the

vertebrae in an implanted position.

In use, after the damaged vertebra is removed, the optimum vertebral height is determined and

the threaded cylindrical body 21 and threaded endplates 22 are fitted together to achieve the proper

height. Once the endplates 22 and threaded cylindrical body 21 have been adjusted to the correct height

between the vertebrae, the set screws 24 are threaded into the threaded openings 39 formed in the

endplates 22 so that the set screws 24 can engage and secure the threaded cylindrical body 21 with

respect to the endplates 22. Thus, the set screws 24 provide a means for fixing the components together

and for preventing rotation of the cylindrical body 21 with respect to either of the endplates 22.

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The present application is directed to an intervertebral implant 15 including a spacer body having

at least one endface 17 for contacting at least a portion of an adjacent vertebra and at least one end

member 4 including a plurality of spikes 7 for engaging at least a portion of the adjacent vertebra. The

at least one end member 4 is slidably movable with respect to the spacer body so that the at least one end

member 4 is moveable between a first position and a second position. In the first position, the plurality

of spikes 7 formed on the at least one end member 4 extend beyond the endface 17 of the spacer body

and in the second position, the plurality of spikes 7 formed on the at least one end member 4 do not

extend beyond the endface 17 of the spacer body.

Independent claim 16 of the present application is directed to an intervertebral implant and

recites, as follows:

an intervertebral <u>spacer body</u> having at least an upper endface sized and configured to contact at least a portion of an upper vertebra; and

at least one end member including a plurality of spikes for engaging at

least a portion of the upper vertebra,

the intervertebral spacer body so that the at least one end member is moveable between a first position and a second position wherein when in the <u>first</u> position the plurality of spikes formed on the at least one end member <u>extend</u>

wherein the at least one end member is slidably movable with respect to

beyond the upper endface of the spacer body and when in the second position the plurality of spikes formed on the at least one end member do not extend

beyond the upper endface of the spacer body. (Emphasis added).

It is respectfully submitted that there is no disclosure, teaching or suggestion in Rabbe of an

intervertebral implant comprising an intervertebral spacer body and at least one end member wherein the

at least one end member is slidably movable with respect to the intervertebral spacer body. Rather, at

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best, Rabbe discloses an intervertebral implant comprising a threaded cylindrical body 21 and a threaded

endplate 22 that rotatably move relative to each other in order to translate.

Furthermore, it is respectfully submitted that there is no disclosure, teaching or suggestion in

Rabbe of an intervertebral implant comprising an intervertebral spacer body and at least one end

member wherein the intervertebral spacer body includes an endface for contacting at least a portion of

a vertebra. Rather, Rabbe discloses an intervertebral implant comprising a threaded cylindrical body 21

and a threaded endplate 22 wherein the threaded endplate 22 contacts the adjacent vertebra. There is no

disclosure in Rabbe of the threaded cylindrical body 21 contacting the adjacent vertebra. In fact, such

interpretation would be against the explicit teaching of Rabbe which is to provide an adjustable height

implant with circular end faces 23 that cover the end faces of the cylindrical body 21, thereby preventing

the body 21 from contacting the vertebral end plates.

Moreover, it is respectfully submitted that there is no disclosure, teaching or suggestion in Rabbe

of an intervertebral implant comprising an intervertebral spacer body and at least one end member

wherein the at least one end member is slidably movable with respect to the intervertebral spacer body

between a first position and a second position wherein in the first position the plurality of spikes formed

on the at least one end member extend beyond the upper endface of the spacer body and in the second

position the plurality of spikes formed on the at least one end member do not extend beyond the upper

endface of the spacer body. There is no disclosure, teaching or suggestion in Rabbe of the endplates 22

and spikes 91, 120 being moveable between a first position wherein the spikes extend beyond the

endface of the threaded cylindrical body 21 and a second position wherein the spikes do not extend

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beyond the endface of the threaded cylindrical body 21. It is respectfully submitted that the spikes in

Rabbe always extend beyond the endface of the threaded cylindrical body 21.

Based upon each of the above-listed arguments, Applicants respectfully submit that Rabbe does

not disclose, teach, or suggest all of the limitations of independent claim 16. Thus, it is respectfully

submitted that independent claim 16 is allowable over Rabbe. Allowance of independent claim 16 is

respectfully requested.

Furthermore, as claims 17-24 all depend from independent claim 16, it is submitted that these

claims are equally allowable for at least these reasons. Withdrawal of these rejections and allowance of

claims 17-24 is also respectfully requested.

With respect to claims 18-20 and 22 which were rejected under 35 U.S.C. 103(a) as being

unpatentable over Rabbe in view of Castro, it is respectfully submitted that Castro does not overcome

the short comings of Rabbe. Castro was cited for the proposition that it would be obvious for one of

ordinary skill in the art to incorporate one or more elastically deformable projections extending from the

inner surface, the elastically deformable projections engaging the intervertebral spacer body when the

end member is in the first position so that the position of the end member with respect to the spacer body

is secured. Without addressing the merits of this argument, it is respectfully submitted that, for at least

the above-identified reasons, neither Rabbe nor Castro, either alone or in combination, disclose, teach or

suggest all of the limitations of independent claim 16 and, therefore, dependent claims 18-20 and 22.

Thus, it is respectfully submitted that dependent claims 18-20 and 22 are allowable over Rabbe and/or

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Castro. Withdrawal of these rejections and allowance of dependent claims 18-20 and 22 is respectfully

requested.

With respect to claim 21 which were rejected under 35 U.S.C. 103(a) as being unpatentable over

Rabbe in view of Castro and in further view of Fortier, it is respectfully submitted that Fortier does not

overcome the short comings of Rabbe and Castro. Fortier was cited for the proposition that it would be

obvious for one of ordinary skill in the art to incorporate a shoulder on the spacer body for engaging one

or more elastically deformable projections. Without addressing the merits of this argument, it is

respectfully submitted that, for at least the above-identified reasons, neither Rabbe, Castro nor Fortier,

either alone or in combination, disclose, teach or suggest all of the limitations of independent claim 16

and, therefore, dependent claim 21. Thus, it is respectfully submitted that dependent claim 21 is

allowable over Rabbe, Castro and/or Fortier. Withdrawal of this rejection and allowance of dependent

claim 21 is respectfully requested.

INDEPENDENT CLAIM 25

Independent claim 25 and claim 26, which is dependent on claim 25, have been rejected as being

anticipated by Rabbe. Dependent claims 27-29 and 31 have been rejected as being unpatentable over

Rabbe in view of Castro. Dependent claim 30 has been rejected as being unpatentable over Rabbe in

view of Castro and in further view Fortier. Applicants respectfully traverse these rejections with respect

to the above-listed claims.

Independent claim 25 is directed to an intervertebral implant and recites, as follows:

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an intervertebral spacer body having an upper <u>endface sized and</u> <u>configured to contact at least a portion of an upper vertebra</u> and a <u>lower</u> <u>endface sized and configured to contact at least a portion of a lower vertebra</u>:

a first end member including a plurality of spikes for engaging at least a portion of the upper vertebra; and

a second end member including a plurality of spikes for engaging at least a portion of the lower vertebra;

wherein the first and second end members are <u>slidably movable</u> with respect to the intervertebral spacer body so that the first and second end members are moveable between a first position and a second position wherein when <u>in</u> the first position the plurality of spikes formed on the first end member extend beyond the upper endface of the spacer body and <u>the plurality of spikes formed on the second end member extend beyond the lower endface</u> of the spacer body, and when <u>in the second position the plurality of spikes formed on the first end member do not extend beyond the upper endface and the plurality of spikes formed on the second end member do not extend beyond the lower endface. (Emphasis added).</u>

For reasons similar to those listed above, it is respectfully submitted that Rabbe does not disclose, teach, or suggest all of the limitations of independent claim 25. Thus, it is respectfully submitted that independent claim 25 is allowable over Rabbe. Allowance of independent claim 25 is respectfully requested.

Furthermore, as claims 26-31 all depend from independent claim 25, it is submitted that these claims are equally allowable for at least these reasons. Withdrawal of these rejections and allowance of claims 26-31 is also respectfully requested.

INDEPENDENT CLAIM 32

Independent claim 32 has been rejected as being anticipated by Rabbe. Applicants respectfully traverse this rejection with respect to claim 32.

Independent claim 32 is directed to a method of implanting an intervertebral implant into an intervertebral disc space between upper and lower vertebrae and recites as follows:

providing an intervertebral implant having an intervertebral spacer body having an upper endface and a lower endface for contacting the upper and lower vertebrae, respectively; and first and second end members, wherein the first and second end members are slidably disposed on the intervertebral spacer body, the first and second end members including a plurality of spikes formed on a surface thereof:

inserting the intervertebral implant into the intervertebral disc;

moving the first and second end members with respect to the intervertebral spacer body so that the plurality of spikes engage the upper and lower vertebrae, respectively; and

securing the first and second end members with respect to the intervertebral spacer body. (Emphasis Added).

For reasons similar to those listed above, it is respectfully submitted that Rabbe does not disclose, teach, or suggest all of the limitations of independent claim 32. Thus, it is respectfully submitted that independent claim 32 is allowable over Rabbe. Allowance of independent claim 32 is respectfully requested.

Date: August 15, 2008

CONCLUSION

No fee is believed due for this submission. If, however, the Commissioner determines otherwise, the Commissioner is authorized to charge any fees which may now or hereafter be due in this application to Deposit Account No. 19-4709.

In the event that there are any questions, or should additional information be required, please contact Applicants' attorney at the number listed below.

Respectfully submitted,

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